Approved For Release 2003/01/24 CIA-RDP63-00313A000500040039-1

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NRO REVIEW COMPLETED

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SIT THE REAL PROPERTY.

: Temployment of in Ultra High Acuaty The terms of the second

- Le This represents contains a recommendation in Farngraph 5 for the are novel of the broady threater (homesch).
 - a. Meiground
 - a. The bands limitation of our photographic recognitions as graters today in in the silver ballide film. The fluer the grain or bigher the antity - the element the scalaton. The Si-IR film in CARCHA and the St-200 film in CECART has a section resolving paser of 225 lines per stillimeter (at a contrast ratio of 1000 to 1) with as ALA realing of about J. On the other hand, SACE film one resolve only 70 lines per militaries (at a contract ratio of 1300 to 1) while the seem of this aminim is an ASA of 200.

b. The recognition of this basic firsteel limitation of all yer hallow forced the Severment to presd stillings of deliers on "smoonworthwal" file over the last few years. The cost encouraging of the Air Purce programs appears to be the techniques and restortals water careciotypes by arranged a belotter for you by In Cotebor 1962.)

c. The Air Perso has contrasted for a black and while "free radical photographic process? for a reproduction material and a langer range black and white taking referral. Note of these processes sion considerable product become, the Air Force has restricted the remarch and development to a relatively narrow scope. For excepts, stated that Fight Field has indicated so residence for color taking emissions, rather their and objective is a black and white these manufactor substill combine of resolution in the order of This long

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court or single select team aron, nine, grown, etc., and he developed in a much charter time man, perhaps withteen minima. The

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current Air Porce finding and specifications deviations to investigate potential pay-off a recovered in the course of normal research an	rees this is the best	
d. We would cortainly not propose to dil Air Force offert, but rather have discussed a of effort to expend the research two, or three solar emission development.	membriling the lovel	
		25)
naterial for testing over a month ago, but he the material since the processing device is a is fixed by best at 120°C mather these chemical equipment can be simple and dry. On the other equipment will have to be very precise in orderesolution. In sidition, Sectover has funds costing facility which has not been issued are certainly a number of problems involved amples of emalsion costings to rese productions.	ret ready. The material Le, therefore, processing I lead, the printing Le to retain the interest Approved for a pilot Approved for a pi	25
at a cost of continue photopolymes free radical forestion of color to soldeve th	n oldium anth program deation teologiques and a following resillas	
(ASA 10 to 100 possible). (ASA 10 to 100 possible).		
(c) a distance of tasking at observer	**************************************	
(3) Ultra bigs resolution Since this is a dye process, it is essent this portion of the development has alree	Lially grainless and My been deseastrated.	25)
(4) A dry photographic system. How continues it may be advisable to accept a checkent was step in the process, if it	s republished or simple Ligarospee the film speed	

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(5) A low cost product. The dys emulsion should cost only panelss per square foot compared to silver emulsions at about 50; per square foot.

3. Immeti

- a. The supposeful development of an inexpensive film and reproduction making will revolutionize the photographic industry. Dwen in the seminar field the impact would be incommisses aimse a commant print can be made with a simple electric flash unit (the same used to take the picture originally) and both the original and copies can be "processed" and fixed on any electric bot plate.
- b. If we can simultaneously achieve speed and high resolution, the mesonalty for image notion compensation devices and stabilization, with the resulting tulky and complicated equipment could be virtually climated. The skilling to use high statter speeds is a simple substitute for these techniques.
- o. On the other basi, although existing loss systems could immediately show a significant increase in system resolution to exclude the potential of the lang-film continuation, a new approach to option would be required. Systems would become lang limited.
- d. With high whater spends in existing merial recommissence agestern, the lens-file dynamic resolution should approach the static resolution especiality of the lens. In this memory you sould expect to double the information content of any current system (XXXIIA, CICARI or NEALIST).

The proposal appears feasible and although programs of the remarks and development effort may be in pleases (with step increases in specify there is a possibility of having a limited quantity of material for use within a year. A film contains which is already recommissions contained with speci would have translated inpact to sorial recommissions. It is felt that the potential capability greatly ever-chalces the calculated risk in backing such a program. The prisary potential improvement would be directed toward CCAPT, which under present conditions in projecting two feet ground resolution whereas a fast high-resolution within the consent of the first resolution whereas a fast high-resolution within the consent of the first resolution whereas a fast high-resolution within the consent of the first resolution of the containing the development program. The contains within the consent of the first resolution of the contains to the contains the contains and the first resolution of the contains and th	To compare a labeled to community as sixth bigs importation
programs of the remarks and development effort may be in please (with step instrument in apost), there is a possibility of hashing a limited quantity of material for use within a year. A film contains which is already of material for use within a year. A film contains which is already of material for the potential capability greatly everges and the calculated rick in backing seek a program. The primary potential improvement would be directed toward UCAFT, which under present conditions is projecting two foot ground resolution whereas a fact high-resolution film would afford the foot ground resolution whereas a fact high-resolution within the scanner of our film of the film would afford the film of the fil	derigner arest and Oil best Oil countries to guitar Alls on this will "realist"
stop increases in aposi), there is a possibility of having a limited quantity of paterial for use within a year. A film contains which is already or maintain which is recognized paterial for use within a possibility of the paterial for action recognized to act in the potential capability greatly ever- duations the calculated rick in backing sech a program. The primary potential improvement social be directed toward UCAFT, which under present conditions is projecting two foot ground resolution whereas a fact high-resolution film would affect a fact resolution. This endeaver falls within the economic of our film of the contains the cont	
quantity of material for use within a year. A film emplates which is almost grainless considered with speed would have translated impact to sorial recommissions. It is felt that the potential capability grailly every charties shadows the calculated risk in banking sech a program. The primary potential improvement recall be directed toward UKCAPT, which under present conditions is projecting two foot ground resolution whereas a fast high-resolution film would afford paper resolution. This endeaver falls within the commet of our N-170 development program. The coats may be	progress of the remarch and development effort may be in please (with
quantity of material for use within a year. A film emplates which is almost grainless considered with speed would have translated impact to sorial recommissions. It is felt that the potential capability grailly every charties shadows the calculated risk in banking sech a program. The primary potential improvement recall be directed toward UKCAPT, which under present conditions is projecting two foot ground resolution whereas a fast high-resolution film would afford paper resolution. This endeaver falls within the commet of our N-170 development program. The coats may be	step impresses in speed), there is a possibility of haring a limited
recommissions. It is fait that the potential capability gratily over- stadous the calculated rick in backing such a progress. The primary potential improvement would be directed tempt UKCANT, which under present conditions is projecting two foot ground resolution whereas a fast high-resolution film would afford paper of our film) capabilities. This endeaver falls within the economy of our film) development progress. The scale may be	quantity of material for use within a year. A film emulates which is
disdoms the calculated rick in backing seek a program. The primary potential improvement would be directed toward UKAFT, which under present conditions is projecting two foot ground resolution whereas a fast high-resolution film would affect provide the projection of the second resolution. This endeaver falls within the economy of our NI-1703 development program. The scale may be	almost preinless socialism with speed would have tressedous impact on social
improvement would be directed toward UKAFT, which under present conditions is projecting two foot ground resolution whereas a fast high-resolution file would afford application. This endeaver falls within the economy of our NI-1703 development progress. The coads may be	
is projecting two foot ground resolution whereas a fast high-resolution film would afford	stadous the calculated risk in backing such a program. The primary potential
is projecting two foot ground resolution whereas a fast high-resolution film would afford	improvement would be directed teneral CECART, which under present conditions
within the economic of our 11-1703 torologoest progress. The coals may be	is projecting two foot ground respiction whereas a fast high-resolution
which the economic of our 71-170) development program. The comis may be absorbed from funds programmed for Photographic Tatorial and Processing.	file would afford page tilities. This endeavor falls
sheeted from finds programed for Photographic Tatorial and Processing.	within the economic of our FI-1763 development program. The coals may be
	absorbed from funds programmed for Photographic Tatorial and Processing.

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